

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An audio post processing method comprising the following sequenced steps processes:

matrix mixing an audio signal, then
decoding a surround channel of the matrix mixed audio signal, then
~~directing outputting~~ a low frequency input channel of the matrix mixed audio signal to a low frequency effect compatible speaker,
transmitting an ambient noise containing channel of the matrix mixed audio signal to a speaker system operable to create a three dimensional effect, then center channel equalizing the matrix mixed audio signal.
2. (Currently Amended) The audio post processing method according to claim 1, ~~further comprising wherein~~ matrix mixing the audio signal ~~further comprises by applying~~ a downmixing algorithm to the audio signal.
3. (Currently Amended) The audio post processing method according to claim 1, ~~further comprising wherein~~ matrix mixing the audio signal ~~further comprises by applying~~ a Prologic algorithm extracting at least four channels from the matrix mixed audio signal.
4. (Currently Amended) The audio post processing method according to claim 1, further comprising driving a centrally-located loudspeaker with a center channel of the matrix mixed audio signal.
5. (Currently Amended) The audio post processing method according to claim 1, further comprising driving a plurality of loudspeakers positioned towards the rear and to the sides of ~~the~~ a listener with [a] the surround channel of the matrix mixed audio signal.

6. (Currently Amended) The audio post processing method according to claim 1, further comprising using a bass channel of the matrix mixed audio signal to drive a low frequency effect loudspeaker.

7. (Currently Amended) The audio post processing method according to claim 1, further comprising transmitting ambient noise to ~~the~~ a plurality of loudspeakers positioned towards the rear and the sides of ~~the~~ a listener.

8. (Currently Amended) The audio post processing method according to claim 1, further comprising transmitting ambient noise to a loudspeaker positioned towards the front of a listener to create a encompassed impression ~~therein~~.

9. (Previously Presented) The audio post processing method according to claim 1, further comprising inputting a listener preference and available equipment status into a player console, wherein the listener preference reflects a desired post processing effect.

10. (Currently Amended)) An audio post processing method comprising the following ordered ~~steps~~ processes:

matrix mixing an audio signal, then
decoding a surround channel of the matrix mixed audio signal, then
~~directing outputting~~ low frequency input channels to a bass compatible speaker, then applying a headphone algorithm to the matrix mixed audio signal.

11. (Currently Amended) The audio post processing method according to claim 10, ~~further comprising wherein~~ matrix mixing the audio signal ~~further comprises by~~ applying a downmixing algorithm to the audio signal.

12. (Currently Amended) The audio post processing method according to claim 10, ~~further comprising wherein~~ matrix mixing the audio signal ~~further comprises by~~

applying a Prologic algorithm extracting at least four channels from the matrix mixed audio signal.

13. (Original) The audio post processing method according to claim 10, further comprising driving the headphone speaker with a center channel of the signal.

14. (Currently Amended) The audio post processing method according to claim 10, further comprising driving the headphone speaker with a surround channel of the matrix mixed audio signal.

15. (Original) The audio post processing method according to claim 10, further comprising transmitting ambient noise to the headphone speaker.

16. (Original) The audio post processing method according to claim 10, further comprising inputting a listener preference and available equipment status into a player console, wherein the listener preference reflects a desired post processing effect.

17. (Currently Amended) An audio post processing system, comprising:

at least one decoder operable to perform the following sequenced steps:
matrix mixing an audio signal, then
decoding a surround channel of the matrix mixed audio signal, then
directing outputting a low frequency input channel of the matrix mixed audio signal to a low frequency effect compatible speaker,
transmitting an ambient noise containing channel of the matrix mixed audio signal to a speaker system operable to create a three dimensional effect, then
center channel equalizing the input matrix mixed audio signal;
a player console operable to receive system a listener input;

a signal source producing [[a]] the matrix mixed audio signal comprised of a plurality of channels, each channel operable to drive a loudspeaker positioned at one or more of a plurality of positions destinations.

18. (Currently Amended) The audio post processing system of claim 17, further comprising output amplifiers operable to drive a loudspeaker positioned at one or more of the following positions relative to a listener: front, right, left and rear.

19. (Previously Presented) The audio post processing system of claim 17, further comprising output amplifiers operable to drive a headphone speaker.

20. (Currently Amended) The audio post processing system of claim 17, wherein said the listener input reflects a listener preference and the disposition of available equipment.

21. (Currently Amended) The audio post processing system of claim 17, further comprising surround sound channel output amplifiers driving loudspeakers positioned towards the rear and toward the sides of the a listener.

22. (Currently Amended) The audio post processing system of claim 17, further comprising a center channel equalizer output amplifier driving a loudspeaker positioned towards the front and center of the a listener.

23. (Previously Presented) The audio post processing system of claim 17, further comprising a bass channel amplifier driving a low frequency effect loudspeaker.

24. (Currently Amended) The audio post processing system of claim 17, wherein said the at least one decoder utilizes DCS digital cinema sound techniques said to direct

ambient noise channels of the audio signal to loudspeakers positioned towards the rear of ~~the~~ a listener.

25. (Currently Amended) The audio post processing system of claim 17, wherein ~~said~~ the at least one decoder utilizes a ~~VES~~ virtual enhanced sound algorithm to direct an ambient noise channel of the audio signal to loudspeakers positioned towards the front of ~~the~~ a listener.

26. (Currently Amended) The audio post processing system of claim 17, wherein ~~said~~ the at least one decoder creates a center channel of the matrix mixed audio signal for driving a loudspeaker that is centrally located with respect to ~~the~~ a listener.

27. (Currently Amended) The audio post processing system of claim 17, wherein ~~said~~ the at least one decoder creates [a] the surround sound channel for ambient noise and for driving two loudspeakers that are located to the right and left behind ~~the~~ a listener.

28. (Currently Amended) An audio post processing system, comprising:
at least one decoder operable to perform the following sequenced ~~steps~~
processes:

matrix mixing an audio signal, then
decoding a surround channel of the matrix mixed audio signal, then
~~directing~~ outputting low frequency input channels to a bass
compatible speaker, then
applying a headphone algorithm;
a player console operable to receive ~~system~~ a listener input; and
a signal source producing [[a]] the audio signal comprised of a plurality of
channels, each channel operable to drive a loudspeaker positioned at one or more
of a plurality of destinations.

29. (Currently Amended) An audio post processing method comprising performing a sequence selected from the group consisting of:

- a) matrix mixing an audio signal and decoding a surround channel of the matrix mixed audio signal;
- b) matrix mixing the audio signal, decoding the surround channel, and directing outputting a low frequency input channel of the matrix mixed audio signal to a low frequency effect compatible speaker;
- c) matrix mixing the audio signal and directing outputting the low frequency input channel of the matrix mixed audio signal to the low frequency effect compatible speaker;
- d) matrix mixing the audio signal, decoding the surround channel, directing outputting the low frequency input channel of the matrix mixed audio signal to the low frequency effect compatible speaker, and transmitting an ambient noise containing channel of the matrix mixed audio signal to a speaker system operable to create a three dimensional effect;
- e) matrix mixing the audio signal, decoding the surround channel, and transmitting the ambient noise containing channel of the signal to the speaker system operable to create the three dimensional effect;
- f) matrix mixing the audio signal, directing outputting the low frequency input channel of the matrix mixed audio signal to the low frequency effect compatible speaker, and transmitting the ambient noise containing channel of the matrix mixed audio signal to the speaker system operable to create the three dimensional effect;
- g) matrix mixing the audio signal and transmitting the ambient noise containing channel of the matrix mixed audio signal to the speaker system operable to create the three dimensional effect;
- h) matrix mixing the audio signal, decoding the surround channel, directing outputting the low frequency input channel of the matrix mixed audio signal to the low frequency effect compatible speaker, transmitting the ambient

noise containing channel of the matrix mixed audio signal to the speaker system operable to create the three dimensional effect, and center channel equalizing the input signal;

- i) matrix mixing the audio signal, decoding the surround channel, and center channel equalizing the input matrix mixed audio signal;
- j) matrix mixing the audio signal, directing outputting the low frequency input channel of the matrix mixed audio signal to the low frequency effect compatible speaker, and center channel equalizing the input matrix mixed audio signal;
- k) matrix mixing the audio signal, transmitting the ambient noise containing channel of the matrix mixed audio signal to the speaker system operable to create the three dimensional effect, and center channel equalizing the input matrix mixed audio signal;
- l) matrix mixing the audio signal, decoding the surround channel of the matrix mixed audio signal, directing outputting the low frequency input channel of the matrix mixed audio signal to the low frequency effect compatible speaker, and center channel equalizing the input matrix mixed audio signal;
- m) matrix mixing the audio signal, directing outputting the low frequency input channel of the matrix mixed audio signal to the low frequency effect compatible speaker, transmitting the ambient noise containing channel of the matrix mixed audio signal to the speaker system operable to create the three dimensional effect, and center channel equalizing the input matrix mixed audio signal; and
- n) matrix mixing and center channel equalizing the matrix mixed audio signal;

wherein matrix mixing always precedes decoding the surround channel, directing outputting the low frequency input channel, transmitting the ambient noise containing channel, and center channel equalizing the matrix mixed audio signal,

wherein decoding the surround channel of the audio signal always precedes directing outputting the low frequency input channel, transmitting the ambient noise containing channel, and center channel equalizing the matrix mixed audio signal,

wherein directing outputting the low frequency input channel always precedes transmitting the ambient noise containing channel, and center channel equalizing the matrix mixed audio signal, and

wherein transmitting the ambient noise containing channel always precedes center channel equalizing the matrix mixed audio signal.